

Ed S Lein

List of Publications by Year in descending order

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67
papers

29,965
citations

47006

47
h-index

88630

70
g-index

110
all docs

110
docs citations

110
times ranked

42131
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong and reliable synaptic communication between pyramidal neurons in adult human cerebral cortex. <i>Cerebral Cortex</i> , 2023, 33, 2857-2878.	2.9	21
2	Cellular resolution anatomical and molecular atlases for prenatal human brains. <i>Journal of Comparative Neurology</i> , 2022, 530, 6-503.	1.6	14
3	Single nucleus multi-omics identifies human cortical cell regulatory genome diversity. <i>Cell Genomics</i> , 2022, 2, 100107.	6.5	58
4	Local connectivity and synaptic dynamics in mouse and human neocortex. <i>Science</i> , 2022, 375, eabj5861.	12.6	124
5	Conservation and divergence of cortical cell organization in human and mouse revealed by MERFISH. <i>Science</i> , 2022, 377, 56-62.	12.6	107
6	Expansion sequencing: Spatially precise in situ transcriptomics in intact biological systems. <i>Science</i> , 2021, 371, .	12.6	197
7	Functional enhancer elements drive subclass-selective expression from mouse to primate neocortex. <i>Cell Reports</i> , 2021, 34, 108754.	6.4	88
8	Enhancer viruses for combinatorial cell-subclass-specific labeling. <i>Neuron</i> , 2021, 109, 1449-1464.e13.	8.1	93
9	A machine learning method for the discovery of minimum marker gene combinations for cell type identification from single-cell RNA sequencing. <i>Genome Research</i> , 2021, 31, 1767-1780.	5.5	50
10	Scaled, high fidelity electrophysiological, morphological, and transcriptomic cell characterization. <i>ELife</i> , 2021, 10, .	6.0	33
11	Comprehensive in situ mapping of human cortical transcriptomic cell types. <i>Communications Biology</i> , 2021, 4, 998.	4.4	18
12	Signature morpho-electric, transcriptomic, and dendritic properties of human layer 5 neocortical pyramidal neurons. <i>Neuron</i> , 2021, 109, 2914-2927.e5.	8.1	54
13	Single-cell and single-nucleus RNA-seq uncovers shared and distinct axes of variation in dorsal LGN neurons in mice, non-human primates, and humans. <i>ELife</i> , 2021, 10, .	6.0	41
14	Human neocortical expansion involves glutamatergic neuron diversification. <i>Nature</i> , 2021, 598, 151-158.	27.8	160
15	Comparative cellular analysis of motor cortex in human, marmoset and mouse. <i>Nature</i> , 2021, 598, 111-119.	27.8	361
16	A multimodal cell census and atlas of the mammalian primary motor cortex. <i>Nature</i> , 2021, 598, 86-102.	27.8	316
17	Cell type ontologies of the Human Cell Atlas. <i>Nature Cell Biology</i> , 2021, 23, 1129-1135.	10.3	71
18	Hybridization-based <i>in situ</i> sequencing (HybISS) for spatially resolved transcriptomics in human and mouse brain tissue. <i>Nucleic Acids Research</i> , 2020, 48, e112-e112.	14.5	145

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19	A community-based transcriptomics classification and nomenclature of neocortical cell types. <i>Nature Neuroscience</i> , 2020, 23, 1456-1468.	14.8	183
20	FR-Match: robust matching of cell type clusters from single cell RNA sequencing data using the Friedman-Rafsky non-parametric test. <i>Briefings in Bioinformatics</i> , 2020, 22, .	6.5	12
21	Integrated Morphoelectric and Transcriptomic Classification of Cortical GABAergic Cells. <i>Cell</i> , 2020, 183, 935-953.e19.	28.9	290
22	Parallel RNA and DNA analysis after deep sequencing (PRDD-seq) reveals cell type-specific lineage patterns in human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13886-13895.	7.1	33
23	Transcriptomic evidence that von Economo neurons are regionally specialized extratelencephalic-projecting excitatory neurons. <i>Nature Communications</i> , 2020, 11, 1172.	12.8	70
24	Common cell type nomenclature for the mammalian brain. <i>ELife</i> , 2020, 9, .	6.0	56
25	Conserved cell types with divergent features in human versus mouse cortex. <i>Nature</i> , 2019, 573, 61-68.	27.8	1,198
26	Classification of electrophysiological and morphological neuron types in the mouse visual cortex. <i>Nature Neuroscience</i> , 2019, 22, 1182-1195.	14.8	333
27	Neurodevelopmental disease genes implicated by de novo mutation and copy number variation morbidity. <i>Nature Genetics</i> , 2019, 51, 106-116.	21.4	231
28	Single-cell transcriptomic evidence for dense intracortical neuropeptide networks. <i>ELife</i> , 2019, 8, .	6.0	98
29	Cell type discovery using single-cell transcriptomics: implications for ontological representation. <i>Human Molecular Genetics</i> , 2018, 27, R40-R47.	2.9	63
30	Single-nucleus and single-cell transcriptomes compared in matched cortical cell types. <i>PLoS ONE</i> , 2018, 13, e0209648.	2.5	400
31	Integrative functional genomic analysis of human brain development and neuropsychiatric risks. <i>Science</i> , 2018, 362, .	12.6	516
32	Shared and distinct transcriptomic cell types across neocortical areas. <i>Nature</i> , 2018, 563, 72-78.	27.8	1,323
33	h-Channels Contribute to Divergent Intrinsic Membrane Properties of Supragranular Pyramidal Neurons in Human versus Mouse Cerebral Cortex. <i>Neuron</i> , 2018, 100, 1194-1208.e5.	8.1	134
34	Genetic identification of brain cell types underlying schizophrenia. <i>Nature Genetics</i> , 2018, 50, 825-833.	21.4	497
35	A robust ex vivo experimental platform for molecular-genetic dissection of adult human neocortical cell types and circuits. <i>Scientific Reports</i> , 2018, 8, 8407.	3.3	77
36	An anatomic transcriptional atlas of human glioblastoma. <i>Science</i> , 2018, 360, 660-663.	12.6	384

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37	Transcriptomic and morphophysiological evidence for a specialized human cortical GABAergic cell type. <i>Nature Neuroscience</i> , 2018, 21, 1185-1195.	14.8	212
38	Distinctive Structural and Molecular Features of Myelinated Inhibitory Axons in Human Neocortex. <i>ENeuro</i> , 2018, 5, ENEURO.0297-18.2018.	1.9	35
39	Sparse recurrent excitatory connectivity in the microcircuit of the adult mouse and human cortex. <i>ELife</i> , 2018, 7, .	6.0	142
40	Single-Cell Profiling of an In Vitro Model of Human Interneuron Development Reveals Temporal Dynamics of Cell Type Production and Maturation. <i>Neuron</i> , 2017, 93, 1035-1048.e5.	8.1	43
41	Biallelic mutations in human DCC cause developmental split-brain syndrome. <i>Nature Genetics</i> , 2017, 49, 606-612.	21.4	62
42	PRODUCTION OF A PRELIMINARY QUALITY CONTROL PIPELINE FOR SINGLE NUCLEI RNA-SEQ AND ITS APPLICATION IN THE ANALYSIS OF CELL TYPE DIVERSITY OF POST-MORTEM HUMAN BRAIN NEOCORTEX. , 2017, 22, 564-575.		8
43	The promise of spatial transcriptomics for neuroscience in the era of molecular cell typing. <i>Science</i> , 2017, 358, 64-69.	12.6	333
44	SmartScope2: Simultaneous Imaging and Reconstruction of Neuronal Morphology. <i>Scientific Reports</i> , 2017, 7, 9325.	3.3	8
45	Molecular and cellular reorganization of neural circuits in the human lineage. <i>Science</i> , 2017, 358, 1027-1032.	12.6	192
46	Transcriptomic Perspectives on Neocortical Structure, Development, Evolution, and Disease. <i>Annual Review of Neuroscience</i> , 2017, 40, 629-652.	10.7	85
47	STRT-seq-2i: dual-index 5 ^Ê 1 single cell and nucleus RNA-seq on an addressable microwell array. <i>Scientific Reports</i> , 2017, 7, 16327.	3.3	69
48	The Human Cell Atlas. <i>ELife</i> , 2017, 6, .	6.0	1,547
49	Neuropathological and transcriptomic characteristics of the aged brain. <i>ELife</i> , 2017, 6, .	6.0	97
50	Cell type discovery and representation in the era of high-content single cell phenotyping. <i>BMC Bioinformatics</i> , 2017, 18, 559.	2.6	51
51	A comprehensive transcriptional map of primate brain development. <i>Nature</i> , 2016, 535, 367-375.	27.8	341
52	Using single nuclei for RNA-seq to capture the transcriptome of postmortem neurons. <i>Nature Protocols</i> , 2016, 11, 499-524.	12.0	358
53	Canonical genetic signatures of the adult human brain. <i>Nature Neuroscience</i> , 2015, 18, 1832-1844.	14.8	503
54	Correlated Gene Expression and Target Specificity Demonstrate Excitatory Projection Neuron Diversity. <i>Cerebral Cortex</i> , 2015, 25, 433-449.	2.9	125

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55	Improving reliability and absolute quantification of human brain microarray data by filtering and scaling probes using RNA-Seq. BMC Genomics, 2014, 15, 154.	2.8	49
56	Patches of Disorganization in the Neocortex of Children with Autism. New England Journal of Medicine, 2014, 370, 1209-1219.	27.0	601
57	Transcriptional landscape of the prenatal human brain. Nature, 2014, 508, 199-206.	27.8	1,147
58	Disruptive CHD8 Mutations Define a Subtype of Autism Early in Development. Cell, 2014, 158, 263-276.	28.9	637
59	Coexpression Networks Implicate Human Midfetal Deep Cortical Projection Neurons in the Pathogenesis of Autism. Cell, 2013, 155, 997-1007.	28.9	825
60	Transcriptional Architecture of the Primate Neocortex. Neuron, 2012, 73, 1083-1099.	8.1	234
61	Large-Scale Cellular-Resolution Gene Profiling in Human Neocortex Reveals Species-Specific Molecular Signatures. Cell, 2012, 149, 483-496.	28.9	342
62	An anatomically comprehensive atlas of the adult human brain transcriptome. Nature, 2012, 489, 391-399.	27.8	2,321
63	Differential connectivity and response dynamics of excitatory and inhibitory neurons in visual cortex. Nature Neuroscience, 2011, 14, 1045-1052.	14.8	439
64	A robust and high-throughput Cre reporting and characterization system for the whole mouse brain. Nature Neuroscience, 2010, 13, 133-140.	14.8	5,650
65	Shifting the paradigm: new approaches for characterizing and classifying neurons. Current Opinion in Neurobiology, 2009, 19, 530-536.	4.2	28
66	An anatomic gene expression atlas of the adult mouse brain. Nature Neuroscience, 2009, 12, 356-362.	14.8	264
67	Genome-wide atlas of gene expression in the adult mouse brain. Nature, 2007, 445, 168-176.	27.8	4,863